IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicant: Mika Gomi et al.

Filed: May 20, 1998

Title: "LIQUID CRYSTAL DISPLAY DEVICE"

Docket No.: 30821US3

PRELIMINARY AMENDMENT

Assistant Commissioner for Patents Washington D.C. 20231

Sir/Madam:

Please amend the application submitted herewith as follows before the examination thereof.

IN THE CLAIMS:

Please delete claims 1-11.

Please add new claims 12-22 as follows.

- 1 12. (new) A liquid crystal display device
- 2 comprising:
- 3 a liquid crystal panel comprising liquid crystal
- 4 cells, a first plate disposed on a displaying side of the
- 5 cells, and a second plate disposed on a reverse side of
- 6 the cells;

- 7 a liquid crystal driver electrically connected with
- 8 the liquid crystal panel through a circuit pattern; and
- 9 a light shielding material disposed adjacent said
- 10 liquid crystal driver so as to prevent an outer light
- 11 from being incident to said liquid crystal driver,
- 12 wherein
- one end of said liquid crystal panel is located on
- 14 the film carrier and said end is covered with a light
- 15 shielding film extending from said liquid crystal panel
- 16 to said film carrier.
- 1 13. (new) The liquid crystal display device
- 2 according to the claim 12,
- 3 wherein said first plate has a reverse side facing
- 4 the liquid crystal cells and an opposite displaying side
- 5 said liquid crystal driver is mounted on the reverse side
- 6 of the first plate, and
- 7 said light shielding material comprises a light
- 8 shielding film affixed to the displaying side of said
- 9 first plate so as to cover an area which is opposite to a
- 10 mounting position of said liquid crystal driver.
- 1 14. (new) The liquid crystal display device
- 2 according to the claim 12,
- 3 wherein said second plate has a displaying side
- 4 facing the liquid crystal cells and an opposite reverse

- 5 side and said liquid crystal driver is mounted on the
- 6 display side of the second plate, and
- said light shielding material comprised a light
- 8 shielding film affixed to the reverse side of the second
- 9 plate.
- 1 15. (new) The liquid crystal display device
- 2 according to the claim 12,
- 3 wherein said circuit pattern is formed on a film
- 4 carrier:
- 5 said liquid crystal driver is mounted on the film
- 6 carrier and disposed under the second plated; and
- 7 said light shielding material comprises a light
- 8 shielding film affixed on a surface of said liquid
- 9 crystal driver facing the second plate.
- 1 16. (new) The liquid crystal display device
- 2 according to the claim 15,
- 3 wherein said liquid crystal driver is mounted on a
- 4 surface of said film carrier facing the second plate;
- 5 and a surface of said liquid crystal driver opposite
- 6 the second plate is covered with light shielding resin.
- 1 17. (new) The liquid crystal display device
- 2 according to the claim 15,
- 3 wherein said liquid crystal driver is mounted on a

- 4 surface of said film carrier opposite the second plate;
- 5 and a surface of said liquid crystal driver facing
- 6 the second plate is covered with light shielding resin.
- 1 18. (new) The liquid crystal display device
- 2 according to the claim 12,
- wherein the device is further mounted in a portable
- 4 telephone terminal.
- 1 19. (amended) The liquid crystal display device
- 2 according to the claim 12, further comprising a diffusion
- 3 sheet located adjacent said liquid crystal display panel,
- 4 wherein said diffusion sheet is composed of a light
- 5 diffusing area and a light absorbing area located on the
- 6 outer periphery thereof, the light diffusing area serving
- 7 to diffuse illumination light from a light source to the
- 8 liquid crystal display panel, and the light absorbing
- 9 area serving to absorb the extraneous light incident on
- 10 said liquid crystal driver.
- 11 20. (new) The liquid crystal display device
- 12 according to the claim 12, wherein the first plate has a
- 13 first transparent electrode, the second plate has a
- 14 second transparent electrode, and the liquid crystal
- 15 cells are carried between the first and second
- 16 transparent electrodes and;

- the device further comprises a light shielding resin
- 18 covering an exposed area of the first transparent
- 19 electrode from the liquid crystal cells so that the light
- 20 which reflects from said diffusion sheet to reach the
- 21 liquid crystal is shielded.
 - 1 21. (new) The liquid crystal display device
 - 2 according to the claim 20, wherein said light shielding
 - 3 resin and said light absorbing area of said diffusion
 - 4 sheet are colored in black.
- 1 22. (new) The liquid crystal display device
- 2 according to the claim 20, wherein said light shielding
- 3 resin is colored black.

If there are any additional fees required by the foregoing Amendment, please charge the same to our Deposit Account No. 16-0820, our Order No. 30821.

Respectfully submitted, PEARNE & GORDON LLP

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